

Title (en)  
CONSTANT VELOCITY UNIVERSAL JOINT

Title (de)  
UNIVERSELLES GLEICHLAUFGELENK

Title (fr)  
JOINT UNIVERSEL DE VITESSE CONSTANTE

Publication  
**EP 2554867 A1 20130206 (EN)**

Application  
**EP 11765392 A 20110323**

Priority  
• JP 2010111251 A 20100513  
• JP 2010086323 A 20100402  
• JP 2011056889 W 20110323

Abstract (en)  
Provided is a constant velocity universal joint having track shapes which facilitate quality control on a forging die set and products as in a conventional case while securing higher durability through securement of a stable contact state of forging-molded tracks and finishing-processed tracks with respect to balls. At least one of each of track grooves (22) of an outer joint member (23) and each of track grooves (25) of an inner joint member (26) is formed by cold-forging finishing. A track groove bottom side of the at least one of each of the track grooves (22) and the track grooves (25) is formed into a Gothic arch shape in horizontal cross-section, and track groove opening sides of the at least one of each of the track grooves (22) and the track grooves (25) are each formed into an elliptical shape in horizontal cross-section.

IPC 8 full level  
**F16D 3/2237** (2011.01); **F16D 3/2245** (2011.01); **F16D 3/227** (2006.01)

CPC (source: EP US)  
**F16D 3/2237** (2013.01 - EP US); **F16D 3/2245** (2013.01 - EP US); **F16D 3/227** (2013.01 - EP US); **F16D 2003/22309** (2013.01 - EP US)

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**EP 2554867 A1 20130206**; **EP 2554867 A4 20140820**; **EP 2554867 B1 20220504**; CN 102822548 A 20121212; CN 102822548 B 20150701; US 2013012326 A1 20130110; US 8684850 B2 20140401; WO 2011125491 A1 20111013

DOCDB simple family (application)  
**EP 11765392 A 20110323**; CN 201180016862 A 20110323; JP 2011056889 W 20110323; US 201113637093 A 20110323